

FIG. 1

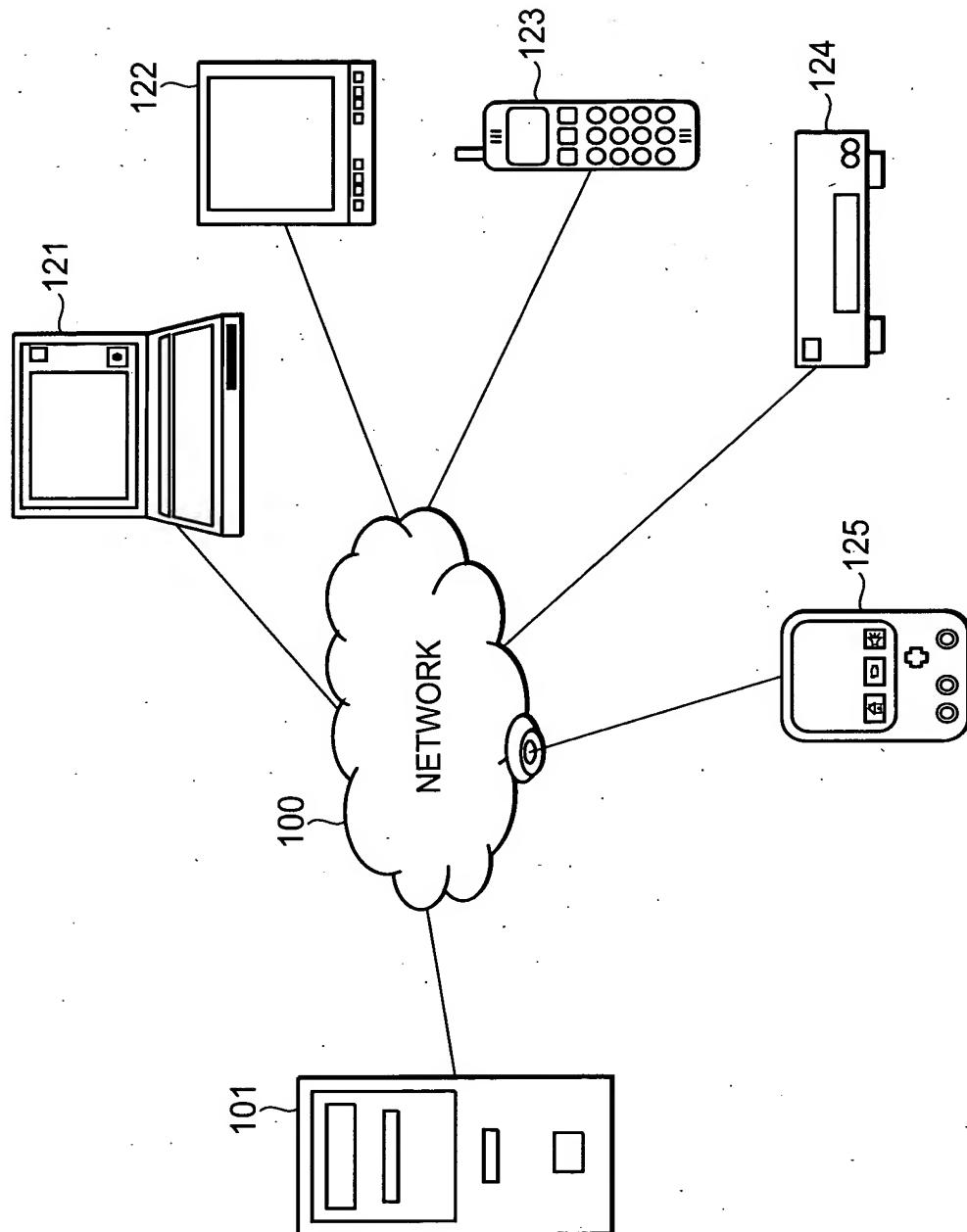


FIG. 2

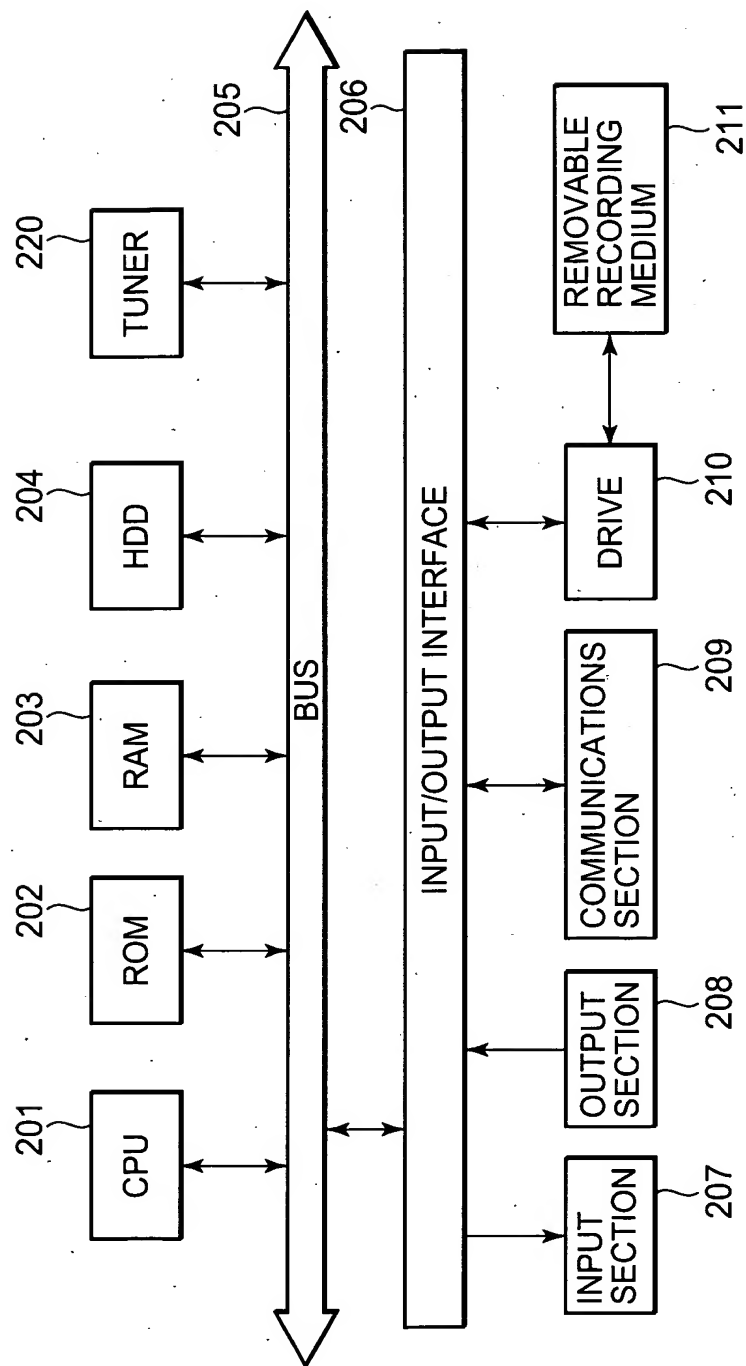


FIG. 3

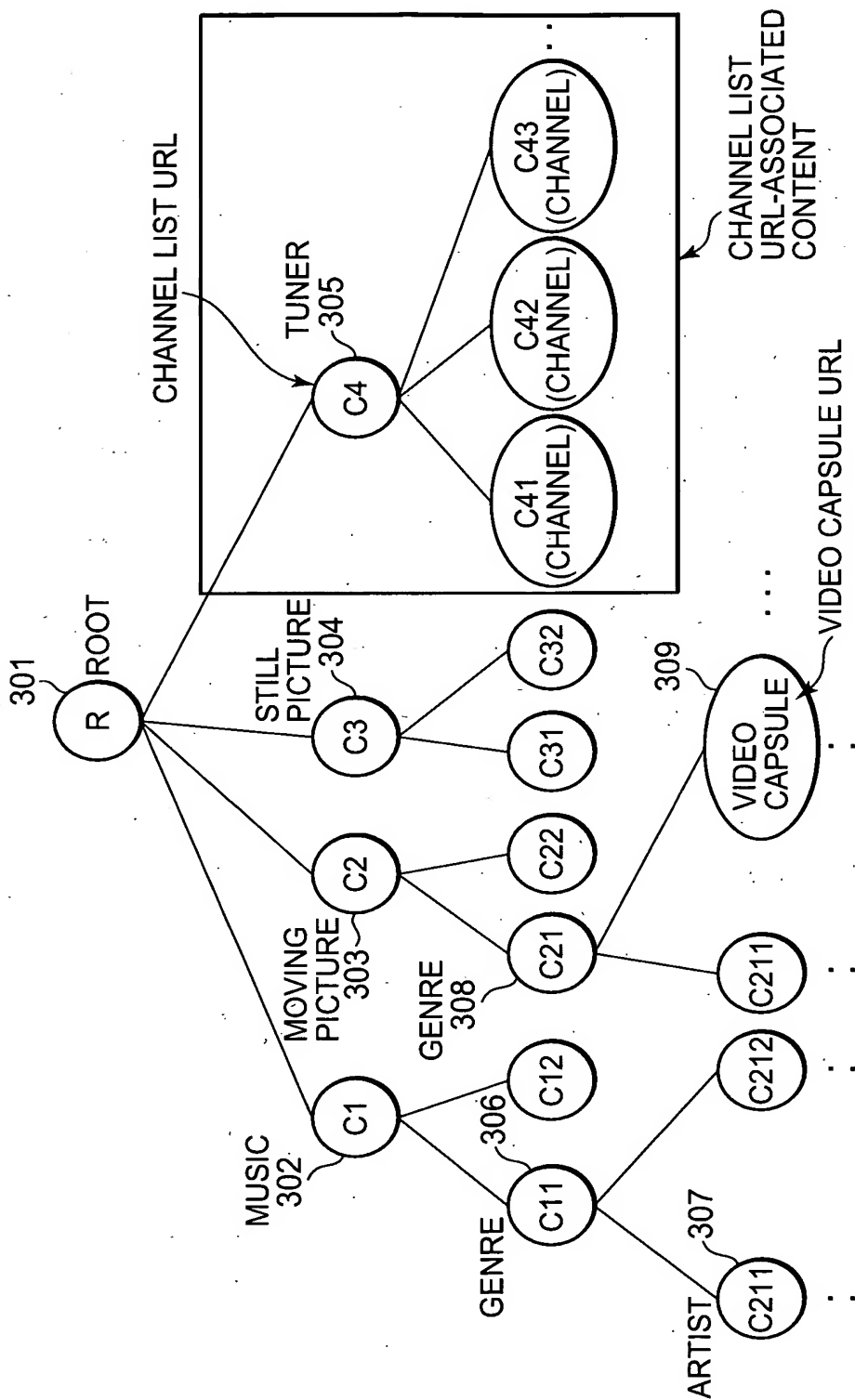


FIG. 4

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CONTENT No.	TITLE	ARTIST'S NAME	CHANNEL	CONTENT URL
0001	Abc ... ffg	Csde ... fddd	...	http://1.2. ... (VIDEO CAPSULE URL)
0002				
0003	TERRESTRIAL CHANNEL LIST		1ch~12ch	http://1.2. ... (CHANNEL LIST URL)
0004	SATELLITE BROADCAST CHANNEL LIST		BS1ch ~CSnnch	http://5.6. ... (CHANNEL LIST URL)

FIG. 5

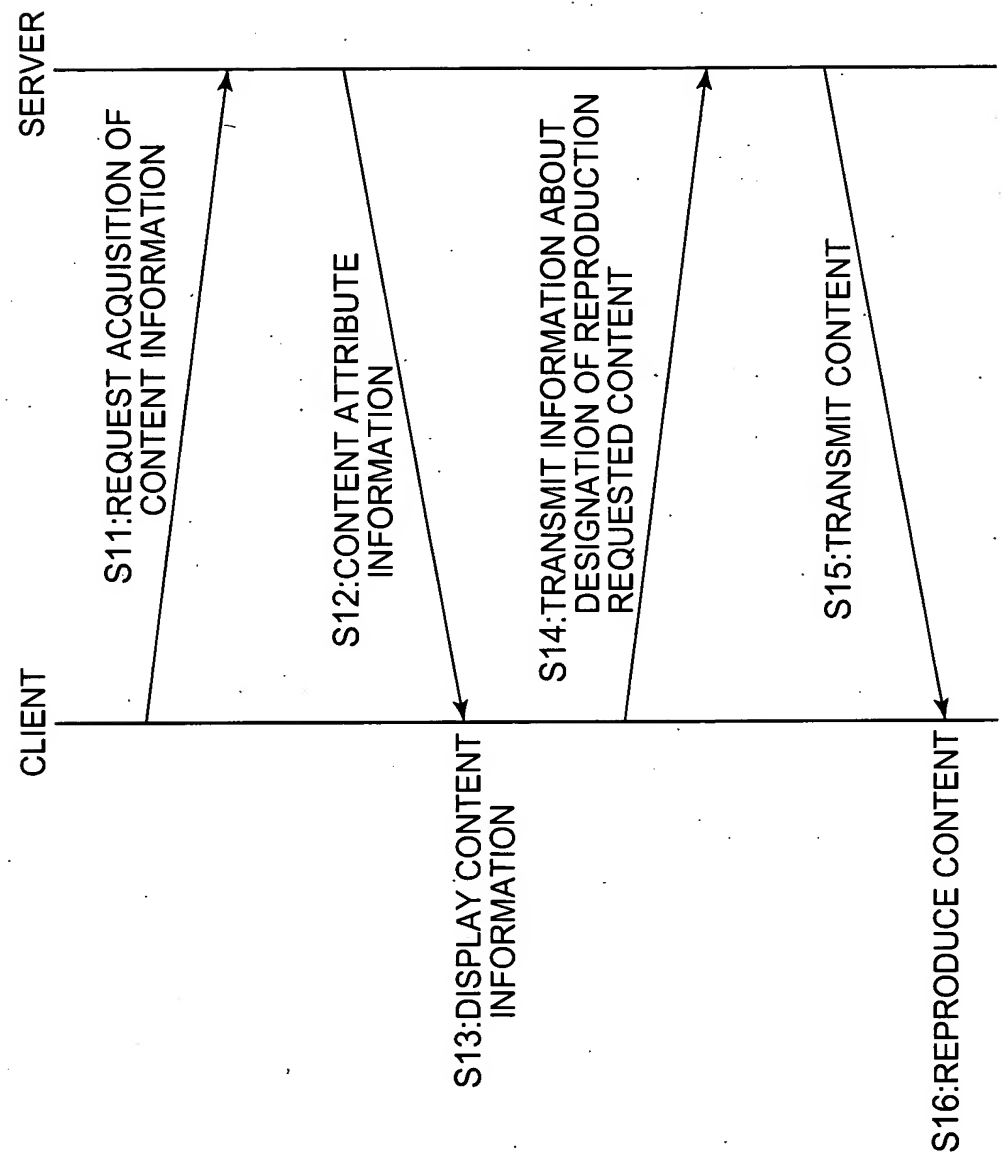


FIG. 6

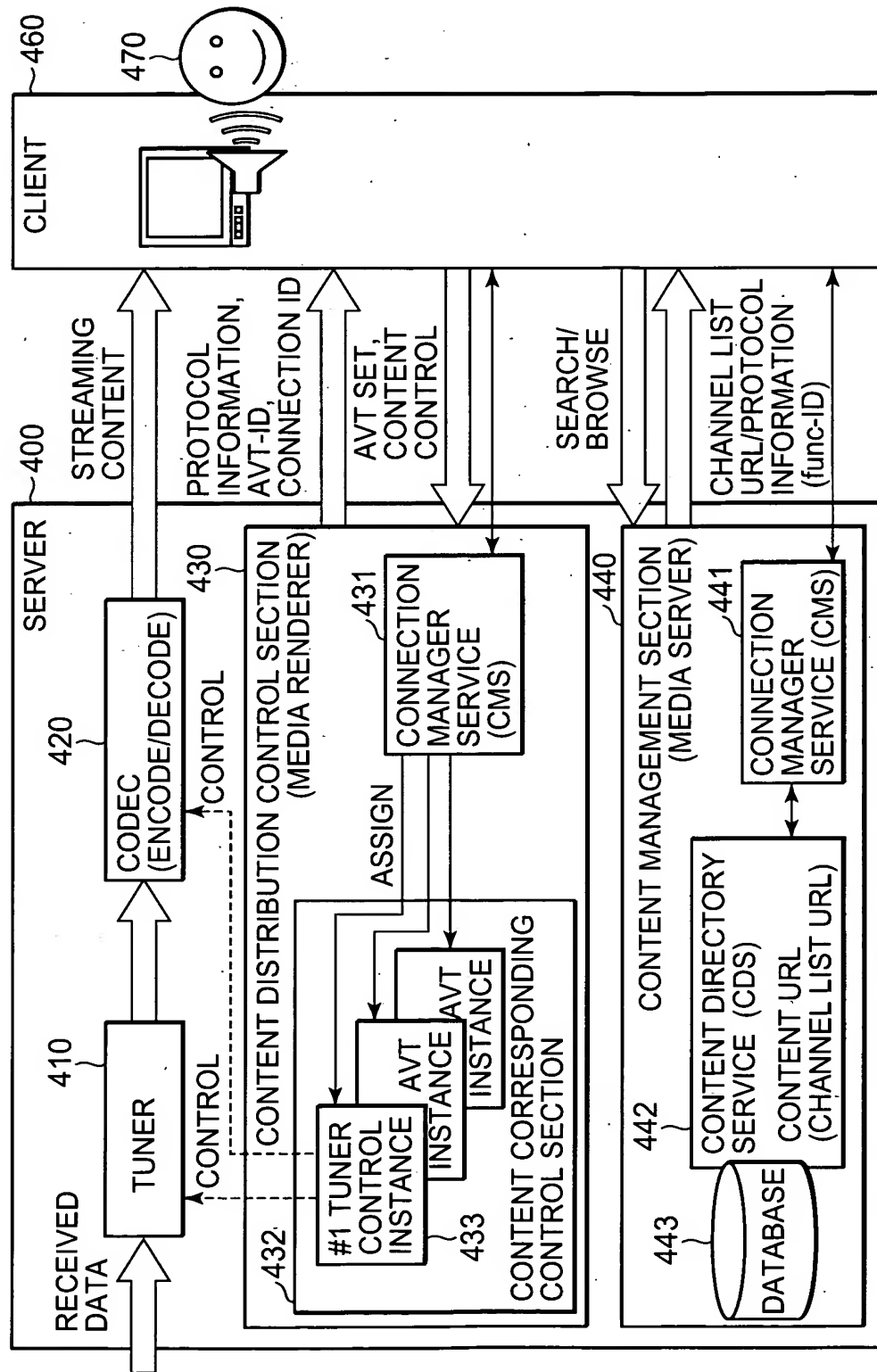


FIG. 7

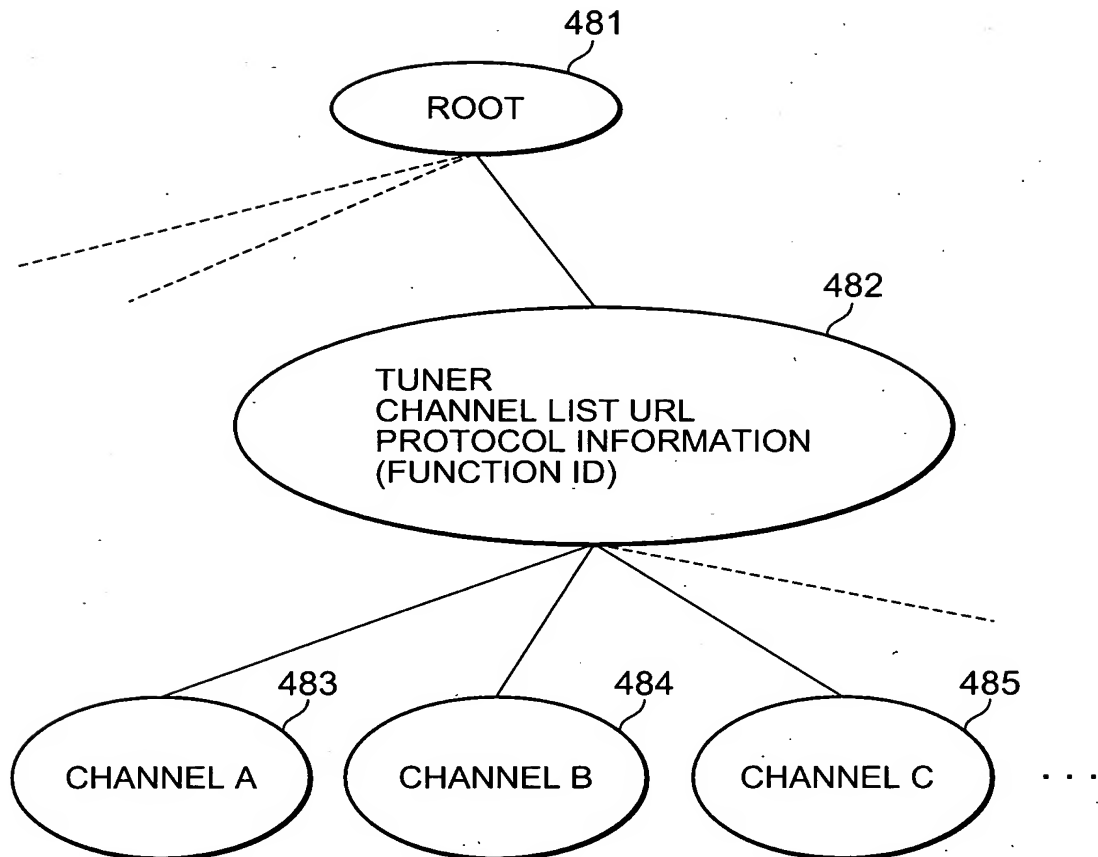


FIG. 8A

```

<container id="ch-list" parentID="-1" restricted="1" ...>
<dc:title> TERRESTRIAL CHANNEL LIST </dc:title>
<upnp:class>object.container.function.avVideoTuner</upnp:class>
...
<av:allowedOperation>Play</av:allowedOperation>
<av:eventingURI>http://1.2.3.4:56000/SENA?id=live</av:eventingURI>
<res:protocolInfo="http-get:*:video/mpeg;func-id=t01" av:codec="MPEG1V" ...>
  http://1.2.3.4:5600/liveout Url
</res>
</container>

```

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FIG. 8B

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<item id="ch8" parentID="dev0" restricted="1">
<dc:title> TOKYO TV </dc:title>
<upnp:class>object.item.videoItem.videoBroadcast.avChannel
</upnp:class>
<upnp:channelName>TOKYO TV<upnp:channelName>
<upnp:channelNr>8</upnp:channelNr>
...
</item>

```



FIG. 9

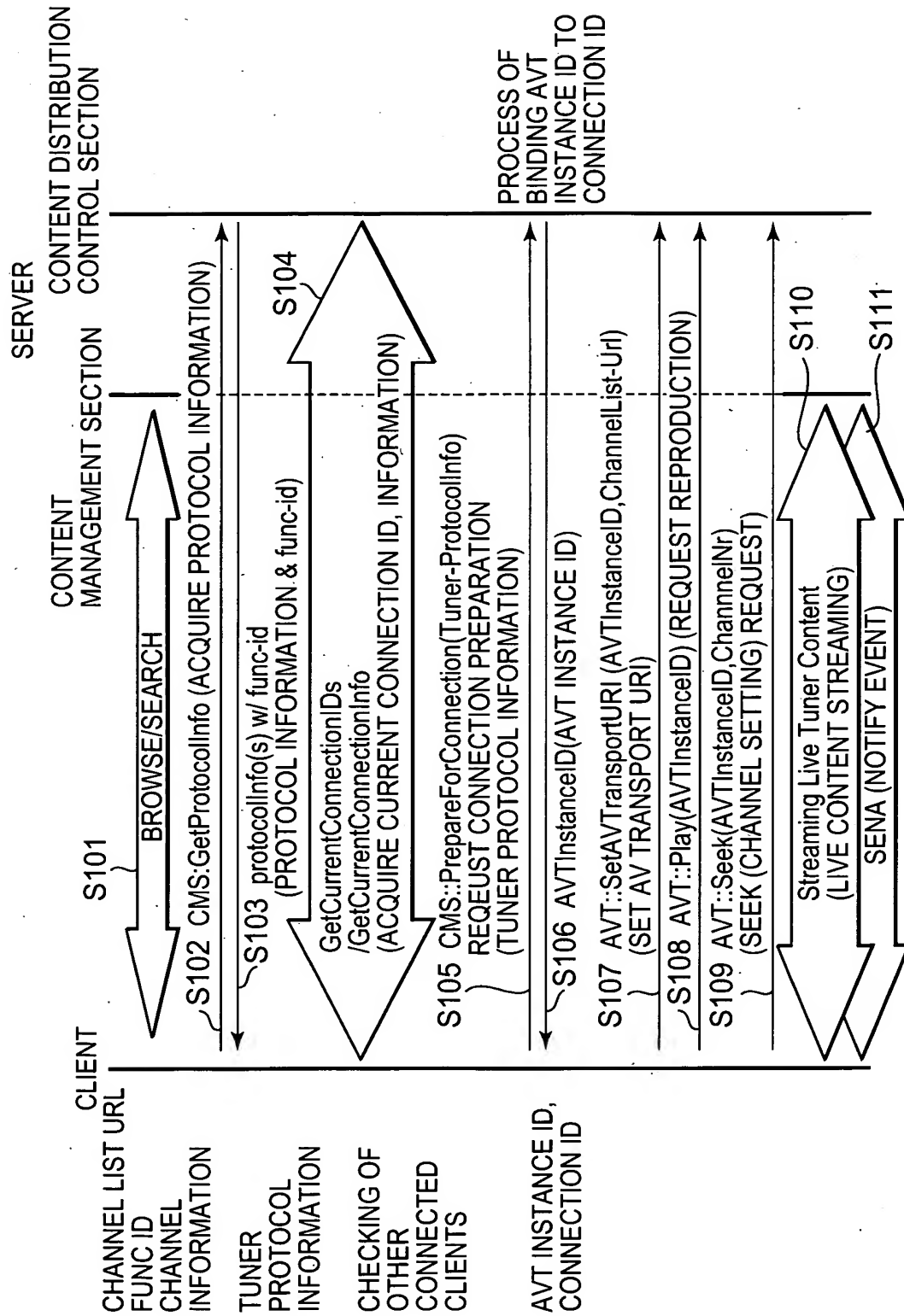
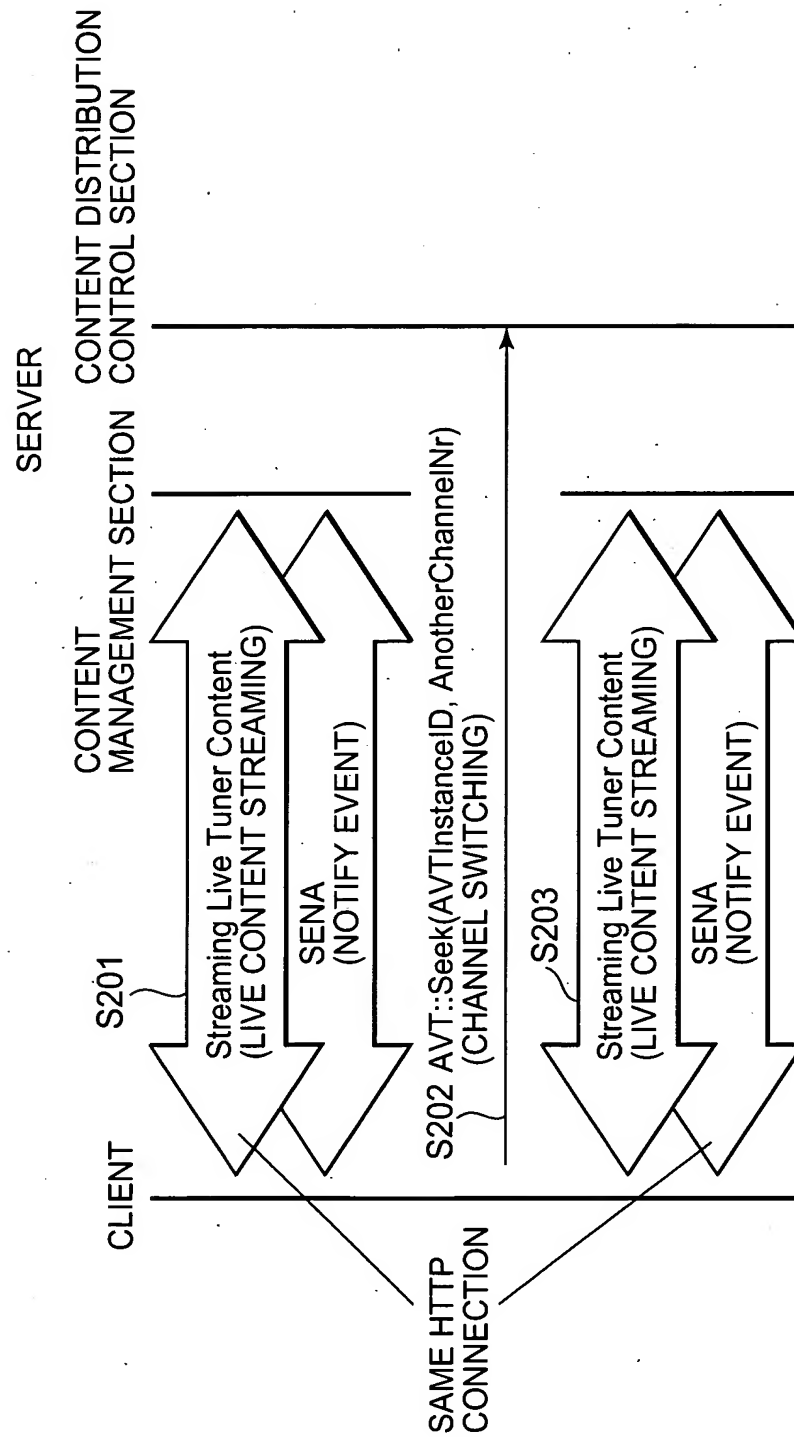


FIG. 10

CLIENT	CONNECTION ID	AVT INSTANCE ID	PROTOCOL INFORMATION
CLIENT A	123aac33	AB66ac33	MPEG
CLIENT B	253bed31	CD54ed22	internal:1.2.3.4:application /x-av-tuner-content:func-id=t01
⋮	⋮	⋮	⋮
CLIENT N	753bab55	ED78ab21	ATRAC

**FIG. 11**



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FIG. 12

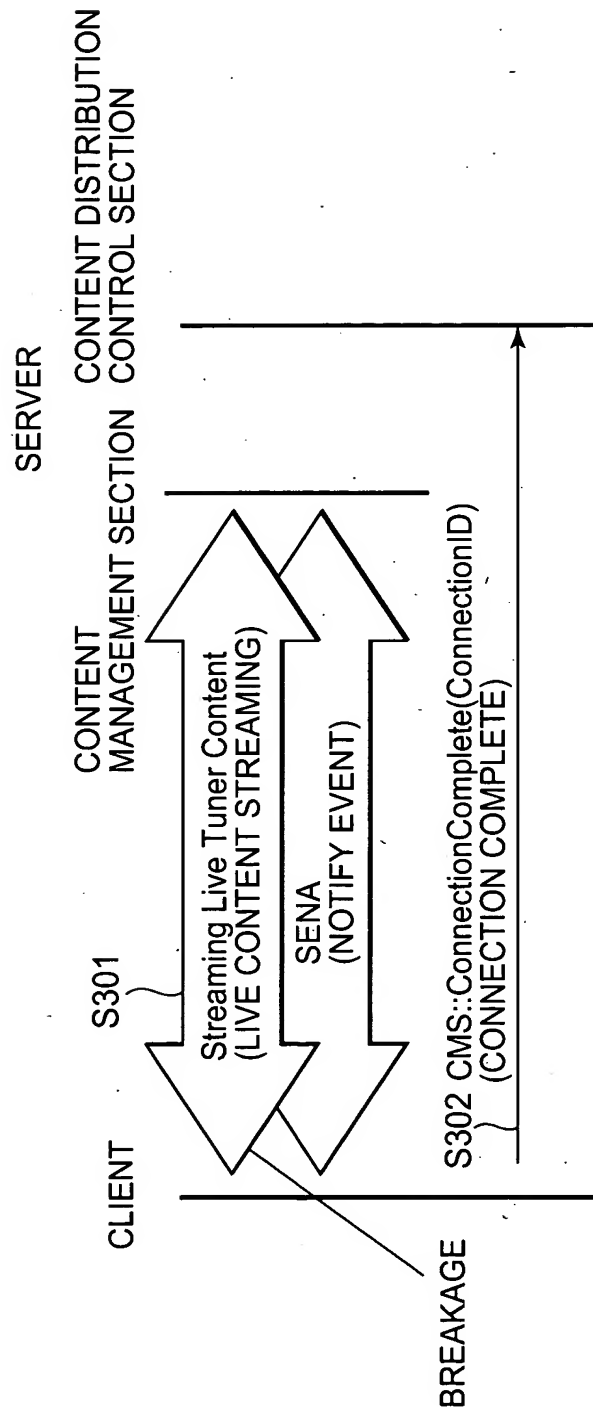


FIG. 13

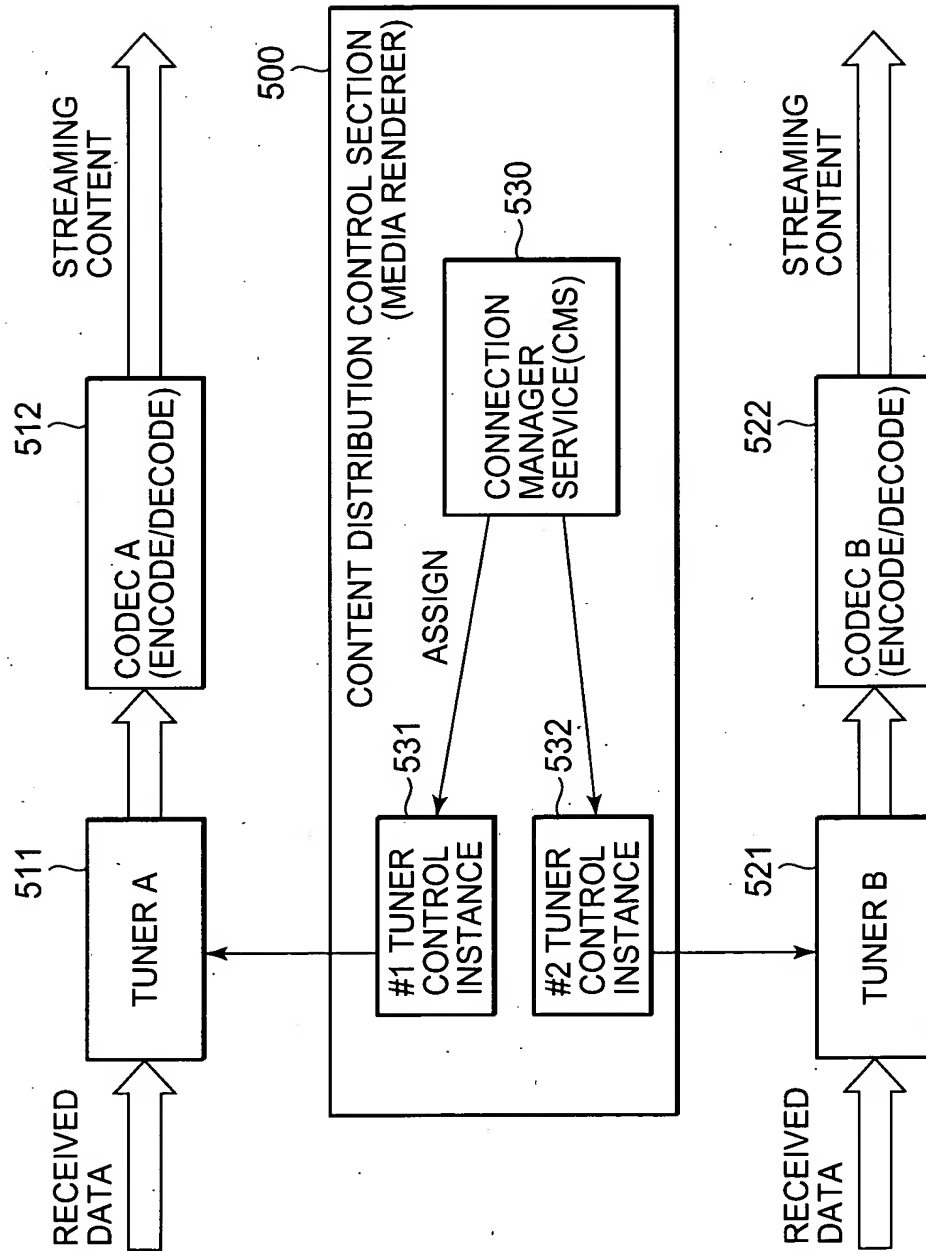


FIG. 14

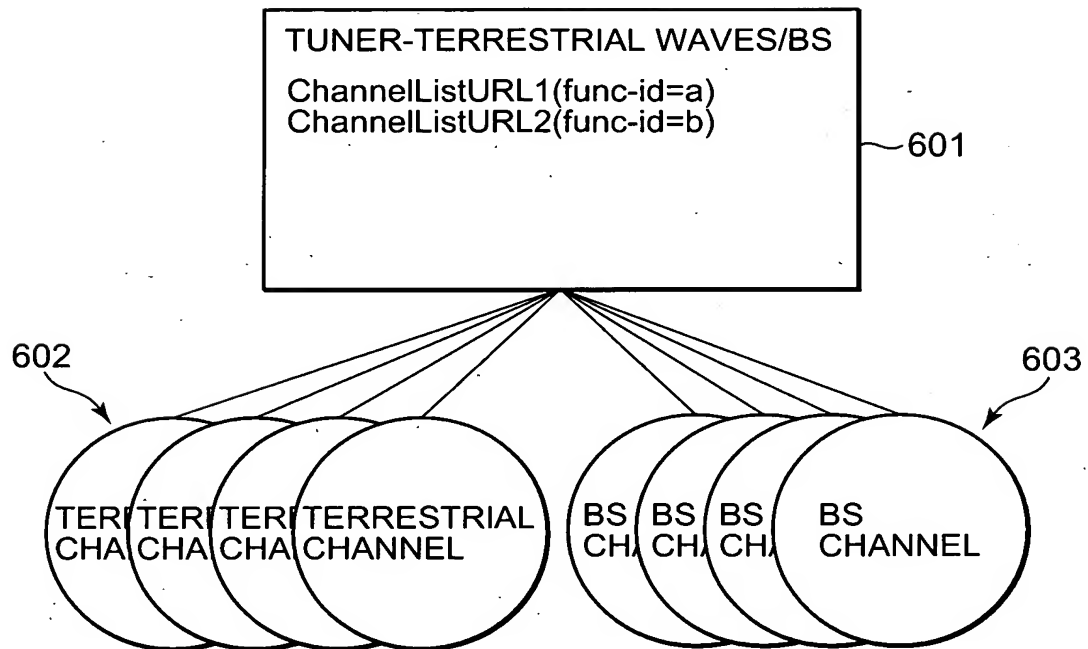




FIG. 16

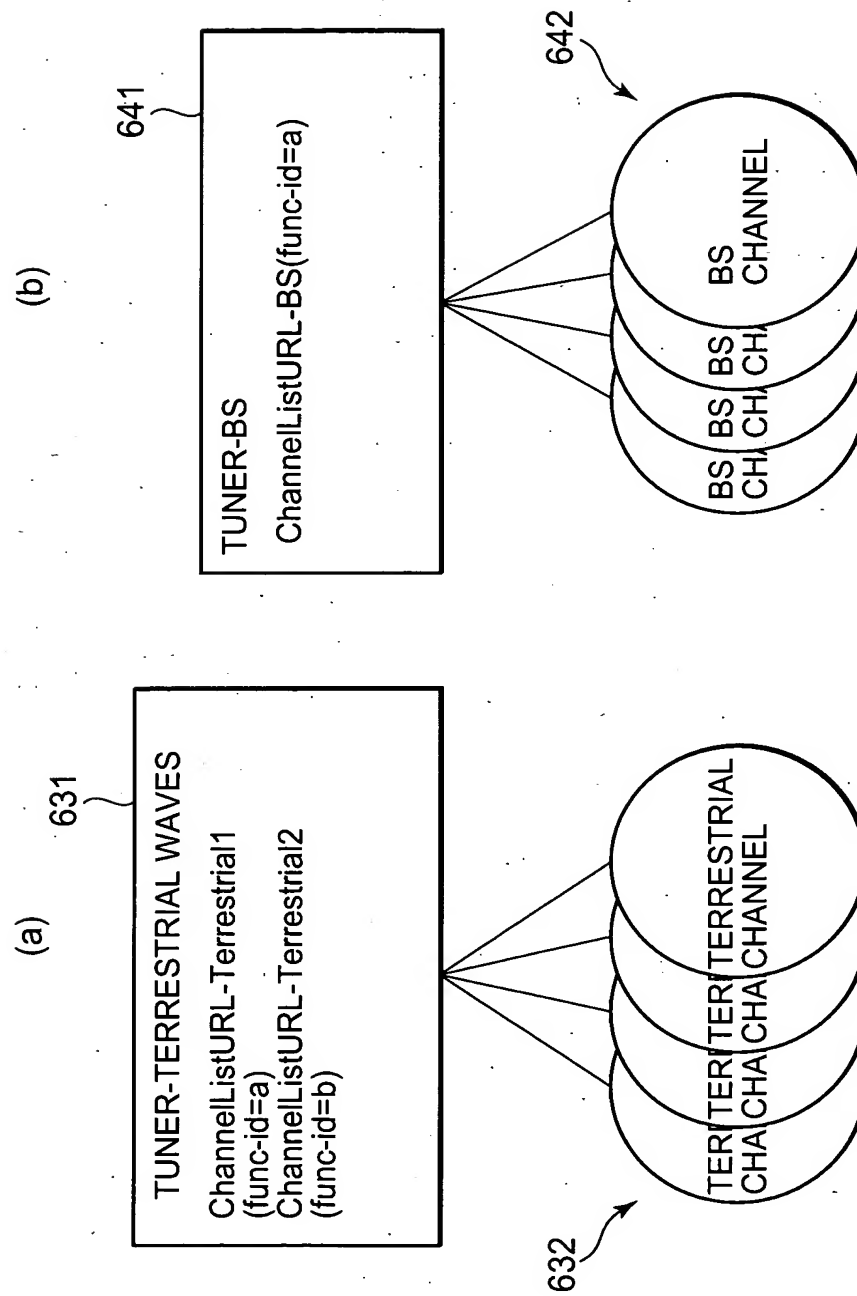




FIG. 17

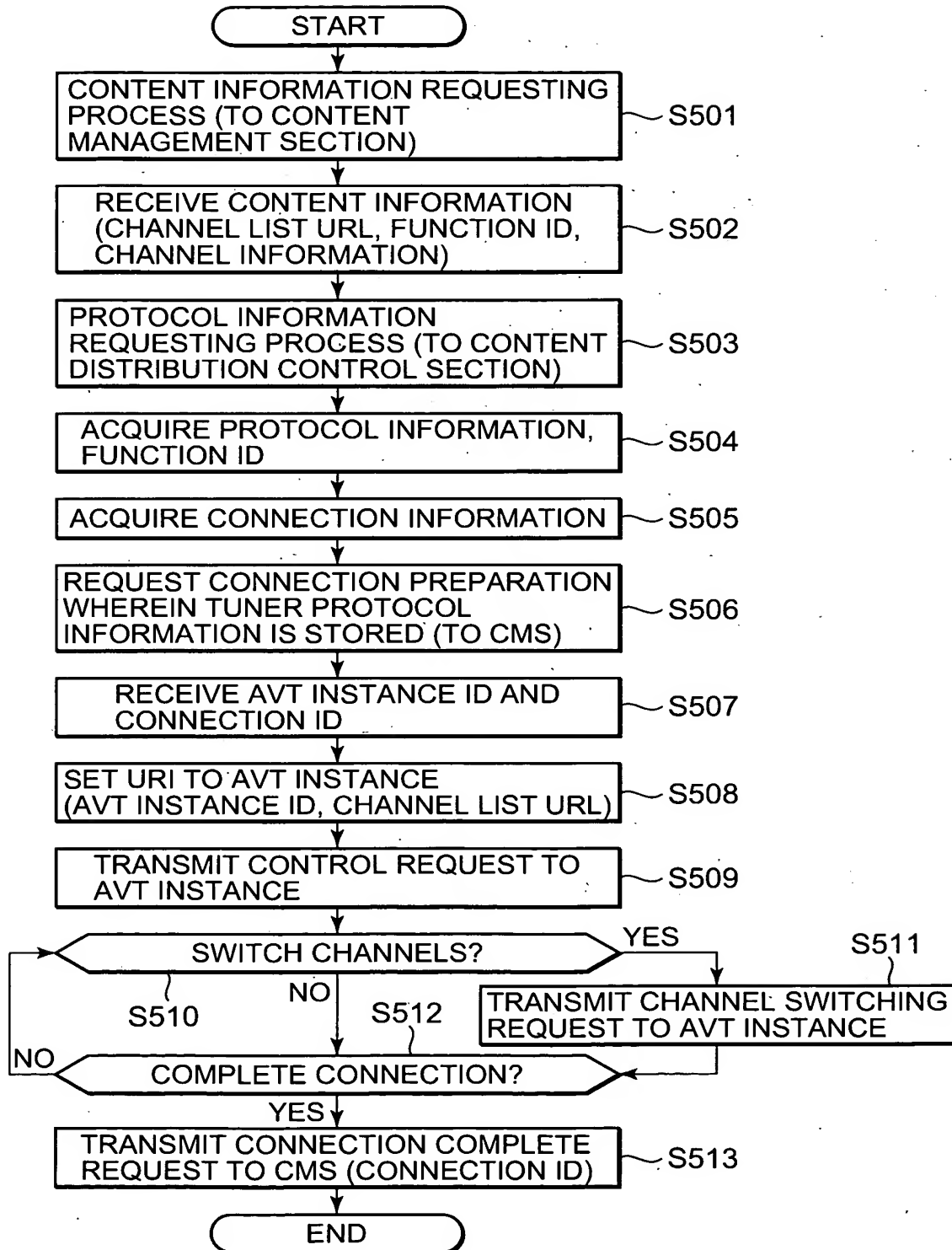


FIG. 18

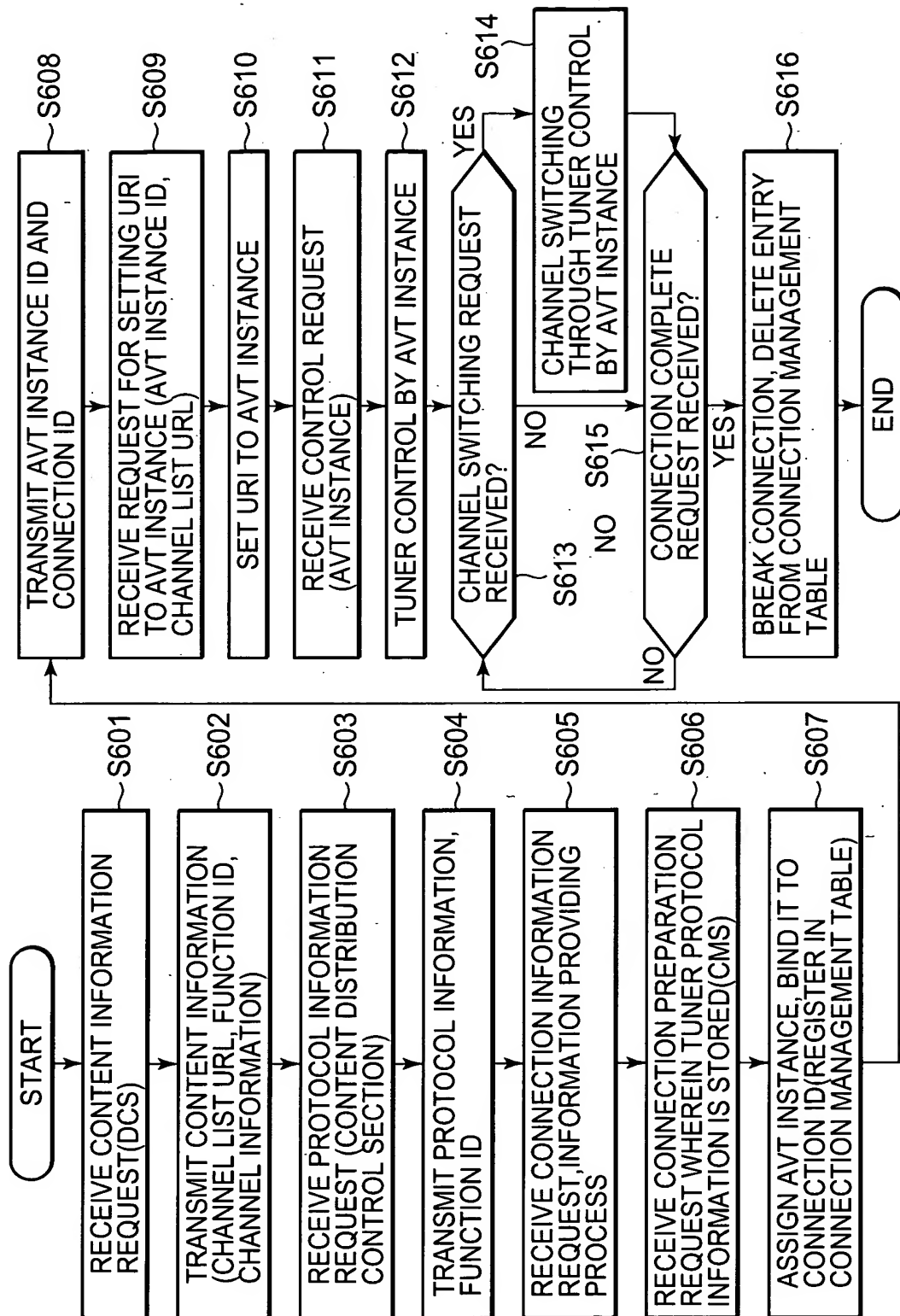


FIG. 19

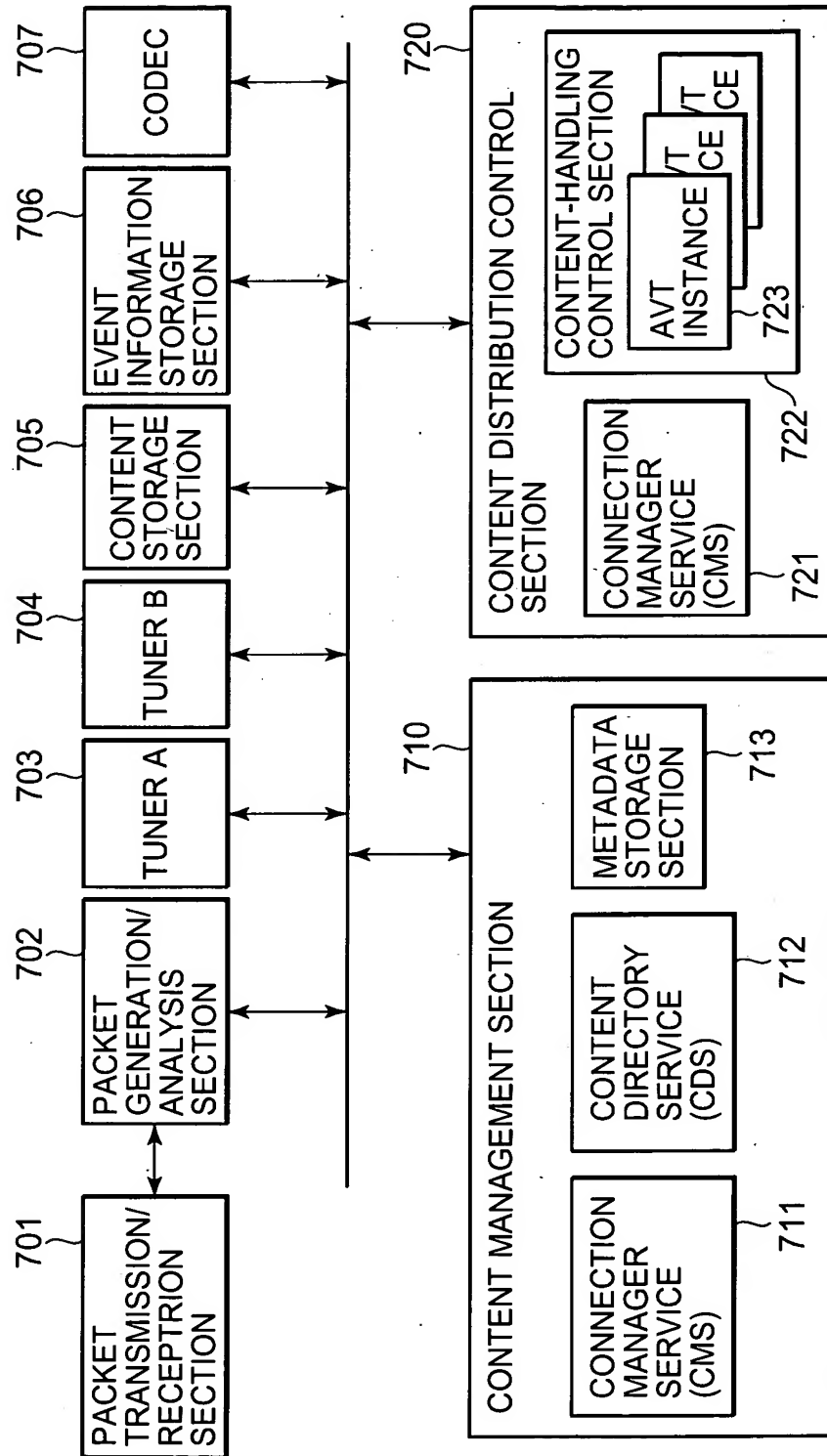


FIG. 20

